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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/750,042	12/30/2003	Wang Yueh	42P18259	9165	
59796 INTEL CORPO	7590 01/07/2008		EXAMINER		
c/o INTELLEVATE, LLC			WALKE, AMANDA C		
P.O. BOX 52050 MINNEAPOLIS, MN 55402			ART UNIT	PAPER NUMBER	
	,		1795		
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	•		MAIL DATE	DELIVERY MODE	
	•		01/07/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Summary	10/750,042	YUEH ET AL.				
omos Action Gammary	Examiner	Art Unit				
The MAILING DATE of this communication and	Amanda C. Walke	1795				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 23 Oc	1) Responsive to communication(s) filed on <u>23 October 2007</u> .					
2a) This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.					
) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims		·				
4) Claim(s) 1-3,5-21 and 23-32 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-3, 5-21, and 23-32 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Serion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
	•					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate				

Application/Control Number:

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/22/2007 has been entered.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-3, 5-21, and 23-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Iwasa et al (6,437,052) Harada et al (EP 1126322).

Harada et al disclose a polymer for a photoresist comprising (meth)acrylic monomers which may comprise a diol as instantly claimed (specifically see (5) on page 6 wherein R5-R7 may be a cyclic alkyl group). The reference teaches that these monomers may be employed in UV resist compositions in combination with other monomers.

Iwasa et al disclose a monomer having a diol structure meeting the instant claim limitations for use in a negative resist composition and patterning process. The alicyclic diols comprise –OH groups on adjacent carbons (see columns 3 and 4). Sutiable cycloolefin include

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adamantyl and norbornene structures. The monomers may be employed in combination with additional methacrylic monomers, however, the reference fails to specifically teach a monomer as instantly claimed. The resist further comprises a crosslinking agent, a PAG, and a solvent (see column 11). The resin coated onto a substrate, prebaked, exposed to light of a short wavelength such as 220 nm or shorter via an ArF laser, and developed (column 18). Suitable developers include 2.38 % TMAH. Iwasa et al has been discussed above, and further teaches that while not preferred, it is known in the art to include novolak monomers, or styrene based monomers in such compositions (column 1).

Given the teachings of the reference, it would have been obvious to one of ordinary skill in the art to prepare the material of Iwasa et al choosing to include an aromatic monomer in combination with the cyclic diol with reasonable expectation of achieving a material having high etch resistance.

It would have been obvious to one of ordinary skill in the art to prepare the material of Iwasa et al choosing to include the diol of Harada et al.

Response to Arguments

3. Applicant's arguments filed 10/23/2007 have been fully considered but they are not persuasive. Applicant has argued that the materials of the references may not be combined. Specifically, applicant has stated that Iwasa teaches that alicyclic groups employed in negative resists result in certain advantages. There is nothing in the reference teaching that monomers such as those taught by Harada may not be employed. The reference teaches that various other known monomers may be employed, and the Harada reference teaches similar monomers are employed in combination with the alkyl diols, therefore it would have been obvious to employ

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the monomers of Harada in combination with the preferred compounds of Iwasa absent evidence to the contrary.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amanda C. Walke whose telephone number is 571-272-1337. The examiner can normally be reached on M-R 5:30-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia Kelly can be reached on 571-272-1526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Amanda C Walke Primary Examiner Art Unit 1795

ACW December 30, 2007